

Application No. 09/871,560

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-5 (CANCELED)

6. (CURRENTLY AMENDED). A method for identifying brain loci of neural correlates ~~clusters that determine the subjective quality~~ of a particular elementary mental state, such as any innate submodality element of sensation, comprising the steps of:

(1) establishing correspondence between said submodality element of sensation and the external stimulus that normally elicits it, and then with a voluntary behavioral response, thus establish correspondence between said stimulus and said response, so that said behavioral response following said stimulus signifies the presence of the said element of sensation, and the absence of said behavioral response signifies the absence of said element of sensation;

(2) detecting, immediately following said external stimulus and said corresponding behavioral response, brain loci that manifest transient increased activation;

(3) identifying, among the said brain loci that ~~manifest~~ manifested increased ~~activation~~, activation in response to said stimulus, those whose ~~deactivation-inactivation~~ selectively eliminates said behavioral response to said external stimulus, without eliminating behavioral responses to external stimuli that induce other elements of sensation within the same submodality.